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(54) Title: NUCLEAR FACTOR OF ACTIVATED T CELLS RECEPTOR

(57) Abstract: Novel nuclear factor of activated T cells ("NFAT") activating receptor useful for producing agonist and antagonist antibodies that regulate the cellular production and expression of cytokines and cellular receptors. The receptor is a 270 amino acid type I transmembrane protein with a calculated molecular mass of about 30 kD. The receptor has a putative signal peptide at the N-terminal (amino acids 1-42), an Ig-domain (amino acids 43-150) in the extracellular region, a predicted transmembrane domain (amino acids 164-186), and an predicted ITAM motif (amino acids 220-235) in the cytoplasmic region. The receptor activates NFAT, IL-13 and TNF alpha promoter reporter activities.